

Title (en)
AQUEOUS FIRE-FIGHTING FOAMS WITH REDUCED FLUORINE CONTENT

Title (de)
WÄSSRIGE FEUERLÖSCHSCHÄUME MIT REDUZIERTEM FLUORGEHALT

Title (fr)
MOUSSES AQUEUSES DE LUTTE CONTRE L'INCENDIE CONTENANT PEU DE FLUOR

Publication
EP 2621590 A4 20140326 (EN)

Application
EP 11830065 A 20111003

Priority
• US 38902710 P 20101001
• US 2011054628 W 20111003

Abstract (en)
[origin: WO2012045080A1] Aqueous film forming firefighting composition concentrates are provided that contain an effective amount of a monomelic zwitterionic or anionic C6 perfluoroalkyl surfactant having a molecule weight less than 800 daltons. The compositions also contain an effective amount of a foam stabilizing agent, and an effective amount of at least one non-fluorinated surfactant. The composition has less than 0.8 % F, and is substantially free of any surfactant containing a perfluoroalkyl group containing more than 6 carbon atoms. The composition meets Military Specification MIL-F- 24385F.

IPC 8 full level
A62D 1/00 (2006.01)

CPC (source: EP KR US)
A62D 1/00 (2013.01 - KR); **A62D 1/0071** (2013.01 - EP US); **A62D 1/0085** (2013.01 - US)

Citation (search report)
• [X] DE 19519534 A1 19961128 - TOTAL WALTHER FEUERSCHUTZ LOES [DE]
• [X] WO 9101160 A1 19910207 - CHUBB NAT FOAM INC [US]
• [A] EP 0755701 A1 19970129 - ATOCHEM ELF SA [FR]
• [A] EP 0621057 A1 19941026 - ATOCHEM ELF SA [FR]
• [A] EP 0049958 A2 19820421 - ANGUS FIRE ARMOUR LTD [GB]
• See references of WO 2012045080A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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WO 2012045080 A1 20120405; AU 2011308494 A1 20130418; AU 2011308494 B2 20150806; BR 112013007866 A2 20160621;
CA 2813077 A1 20120405; CL 2013000879 A1 20130823; CN 103237577 A 20130807; CN 103237577 B 20161130; CO 6731078 A2 20130815;
EP 2621590 A1 20130807; EP 2621590 A4 20140326; IL 225509 A0 20130627; IL 255513 A 20180131; KR 101863914 B1 20180601;
KR 20140022363 A 20140224; MX 2013003605 A 20130729; MX 349932 B 20170821; NZ 609760 A 20150828; PE 20131508 A1 20140116;
RU 2013120289 A 20141120; RU 2595689 C2 20160827; SG 189158 A1 20130531; US 10328297 B2 20190625; US 2013277597 A1 20131024;
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US 2011054628 W 20111003; AU 2011308494 A 20111003; BR 112013007866 A 20111003; CA 2813077 A 20111003;
CL 2013000879 A 20130401; CN 201180054648 A 20111003; CO 13109639 A 20130430; EP 11830065 A 20111003; IL 22550913 A 20130402;
IL 25551317 A 20171108; KR 20137010633 A 20111003; MX 2013003605 A 20111003; NZ 60976011 A 20111003; PE 2013000771 A 20111003;
RU 2013120289 A 20111003; SG 2013023387 A 20111003; US 201113876460 A 20111003; US 201715606801 A 20170526